



AEC Overview

- Woman Owned Small Business that:
 - Integrates C², radar and satellite communications systems
 - Develops operational and systems architectures
 - Uses focused, responsive small-team approach
 - Develops cost-effective, low-risk solutions
 - Provides consistent high-quality services
 - Leverages professional expertise to ensure best solution
 - Integrates with Government and Contractor Teams to meet mission requirements
 - Supports JV2010/2020 Transformation

AEC Core Competencies

- Command and Control Systems
- Radar Systems
- Satellite Communication Systems
- Multi-Level Security Systems Integration
- Defense Financial Management
- Internet Technologies
- Software Development
- Operations Analysis

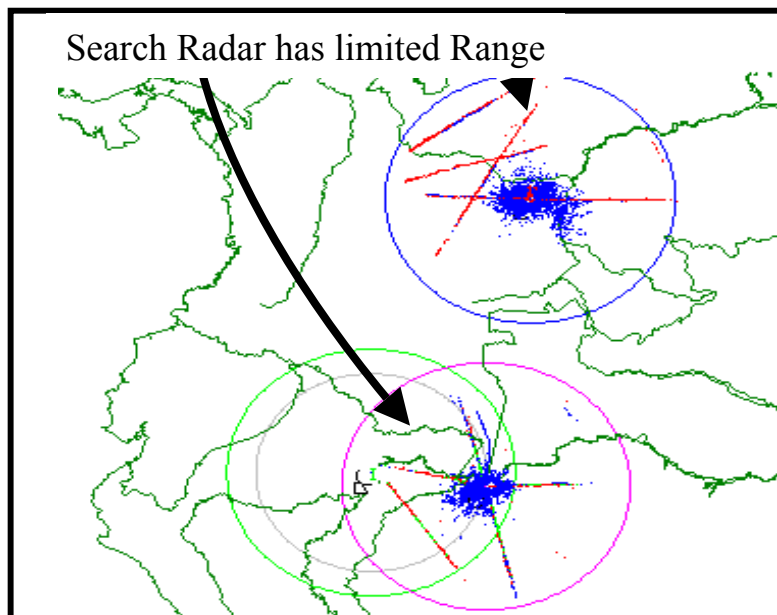
Acquisition Process Capabilities

- Operational Requirements Definition
- Systems/Technical Requirements Definition
- Request for Proposal Generation
- Source Selections and Proposal Analysis
- System Development Technical Support
- System Development Project Management
- System and Operations Analysis
- System and/or Process Re-Engineering
- Configuration Management
- Financial Management/Cost Estimating

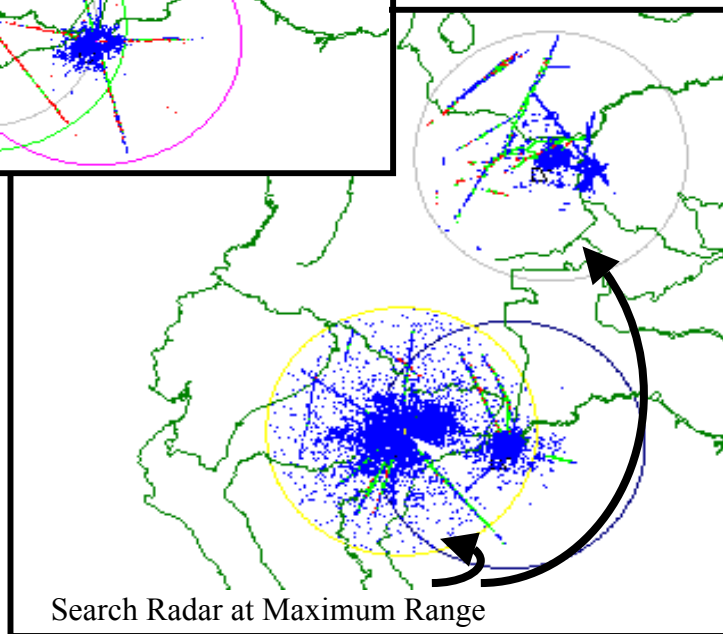
AEC Client Base

- HQ Air Combat Command (ACC)
- HQ 12th Air Force/SOUTHAF
- HQ Electronic Systems Center (ESC)
- Joint Inter Agency Task Force South (JIATF-S)
- US Southern Command (SOUTHCOM)

HQ Air Combat Command

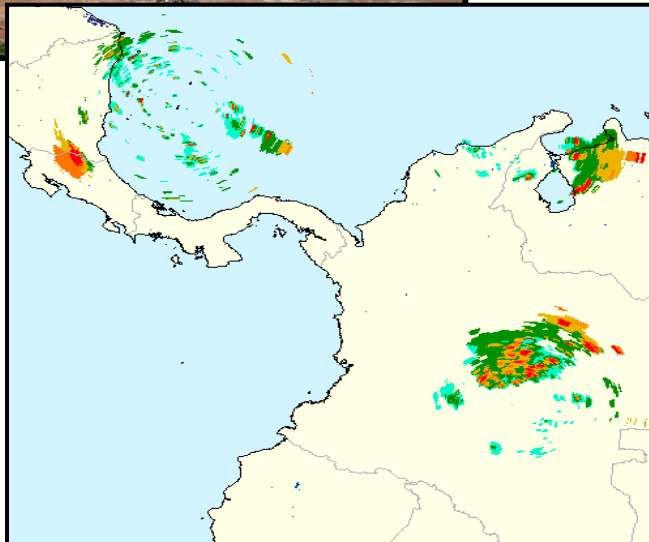


- Radar System Operational Analysis
- Radar System Optimization
- Radar System Trends
- Communication System Configuration Management



Search Radar at Maximum Range

HQ Electronic Systems Center

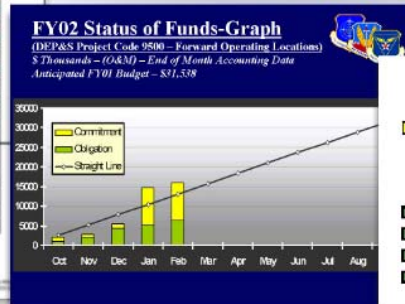
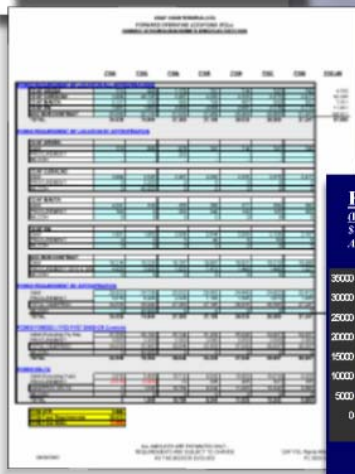


- Communications Engineering Services
- US and Participating Nation Radar Integration
- Radar Sensor Modifications
- Operations Center/Surveillance Center Integration
- Radar/C2 Program Spiral Development
 - Theater Radar Architecture



- Planning, Program
- Requirements Ge
- Activity-Based C
- DoD Accounting
- Economic Analy
- Resource Manag

- Planning, Programming & Budgeting System
- Requirements Generation System
- Activity-Based Cost/Management
- DoD Accounting Systems
- Economic Analysis
- Resource Management



HQ 12 AF, 612 ASOS, Detachment 5
Curacao, Netherlands Antilles
Estimated FY02 Financial Contribution to Curacao Economy
Internal Debt Us Only - Rough Order of Magnitude Estimate

(12 Dec 01)

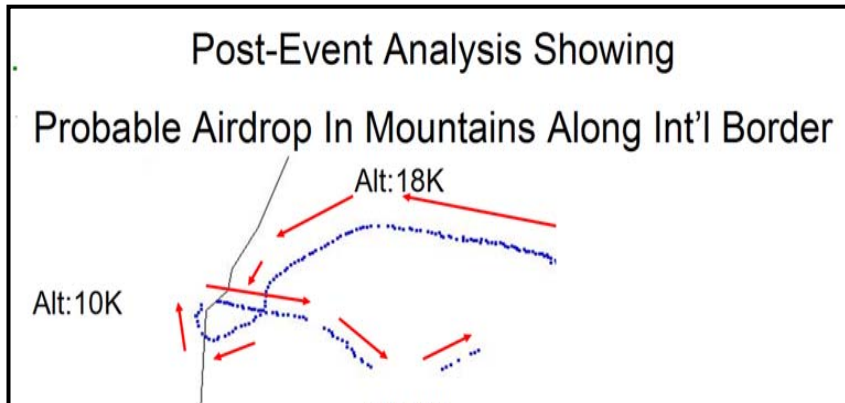
Contracts	11%	19.5% Mgr Fee	Total	
Contracts	0.0%	20% Off	Allowances	
Daily	\$ 12,414.00	\$ 12,560.50	\$ 192.13	\$ 25,166.63
Weekly	\$ 86,898.00	\$ 84,923.50	\$ 1,345.12	\$ 1,699,826.63
Monthly	\$ 345,952.00	\$ 339,694.00	\$ 5,380.48	\$ 7,161,135.00
Annual	\$ 4,151,424.00	\$ 4,076,328.00	\$ 64,565.76	\$ 8,292,317.76

JIATF-South



- Intelligence and C2 Computer Systems Support
- IT Systems Training and Oversight
- Technical and Facility Problem Resolution

JIATF-South



- Radar Intelligence Analysis:
 - Counter-Drug
 - Counter-Proliferation
 - Counter-Terrorism Operations
- Electronic Watch Log
 - Captures all operational and maintenance events
 - Simplifies daily, weekly, and monthly operational reporting
 - Provides historical data capability

Country B

JSSROC
JOINT SOUTHERN SURVEILLANCE RECONNAISSANCE OPERATIONS CENTER

Home Sys Admin E-Log TOI Radar Recon COMMS-Links Trouble Call Airports

Welcome to JSSROC Scott J

Admin (E-Log)
E-Log Help

From To
5/4/01 5/8/02
go

Reports
Watch Log
Event

Radar Status

Radar	Status
Punta Borinquen	●
Punta Salinas	●
Pico del	●

JSSROC Watch Log

New

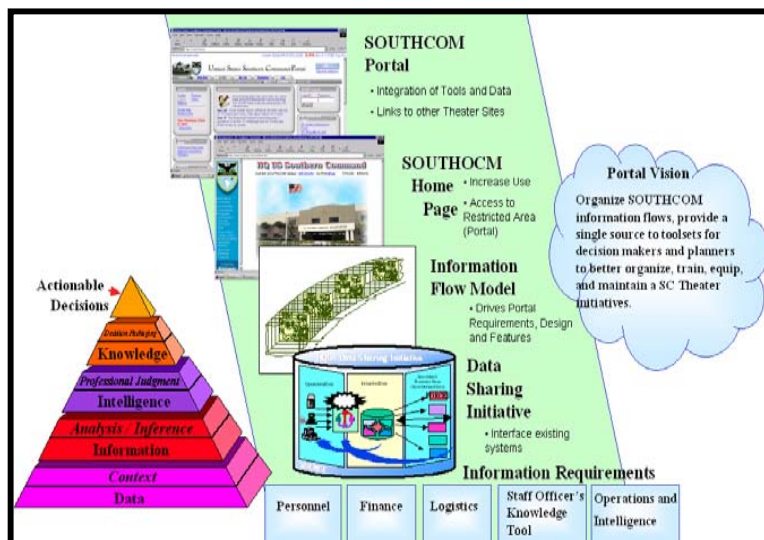
Type Of Entry Country

Entry Text

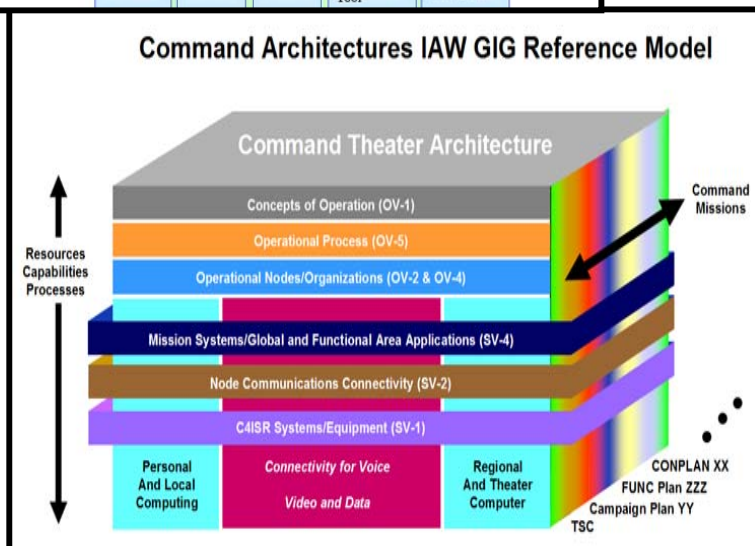
ADD

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Entry ID	Julian	Zulu Date	Zulu Time	Type of Entry	Entry Text
913	02127	08 May 2002	7:50	Force Protection	test of the system
912	02126	07 May 2002	10:57	-CD Flight	test
911	02120	01 May	17:32	-Radar Status	Deleted Radio: Radio Status: Down: PMT: 5/



- Theater DISN Architecture Transformation
- Theater Portal Development
- Operational & Systems Architecture Development
- Theater Information Grid Implementation
- Information Technology Request Automation
- Multi-National Information Sharing Network Implementation



SOUTHCOM Army Signal Activity



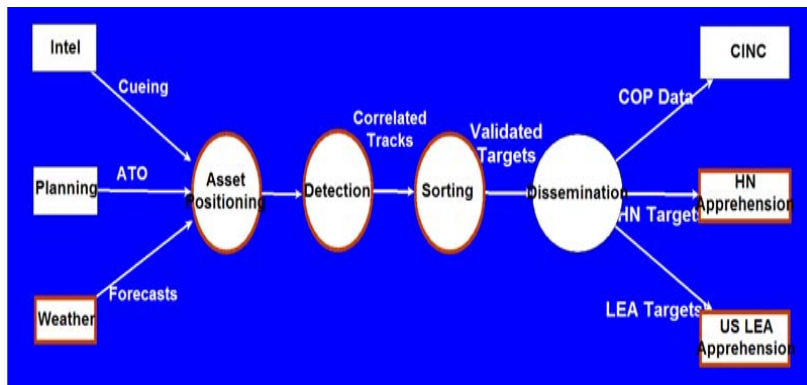
- HQ Enterprise System Development
- Theater Portal Development
- Database and Software O&M
- Web-Based Reporting
- Computer Based Training (CBT) Support



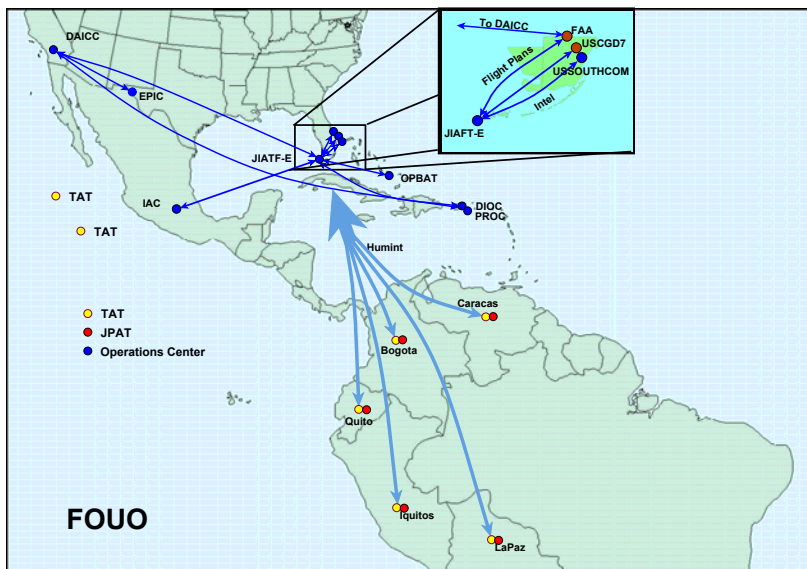
C3 Systems Summary

- Integration of C3 Systems, Operations Centers and Surveillance Systems for the past 10 years
- Operations Centers:
 - Southern Region Operations Center (SROC)
 - Joint Southern Surveillance and Reconnaissance Operations Center (JSSROC)
 - Joint Interagency Task Force South (JIATF-S)
 - Colombian Air Defense Center
- Remote and Local TADIL-A Networks
 - SROC, JSSROC
 - Remote Communication Sites – Colombia, Venezuela, Honduras
- SATCOM Integration/Modernization
 - Conversion from MILSATCOM to Commercial
 - C-Band and Ku-Band Installations in over 6 countries
 - MUX/Modem Modernizations

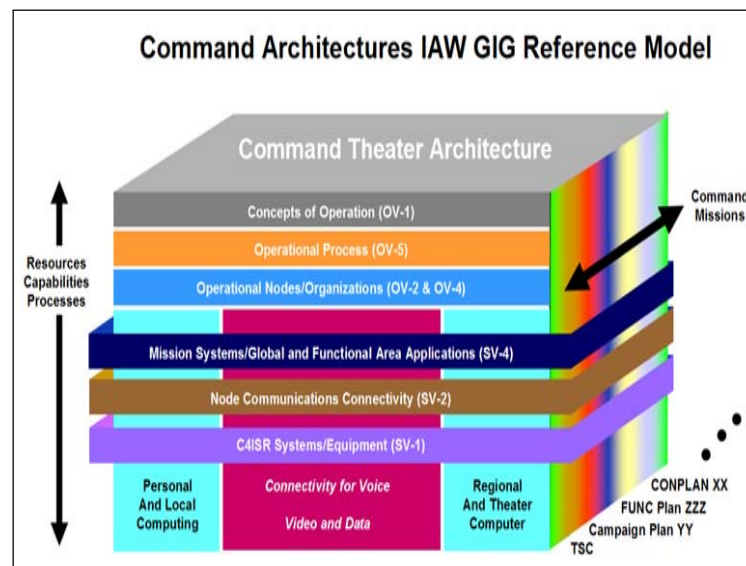
Operational & Systems Architecture Development Experience



Detection and Monitoring: Sorting



- Mission Depiction of Processes, Nodes, Information Exchanges
- Identification of Systems which Enable Processes
- Rationalization of Manpower, IT, and C4ISR resources by Mission

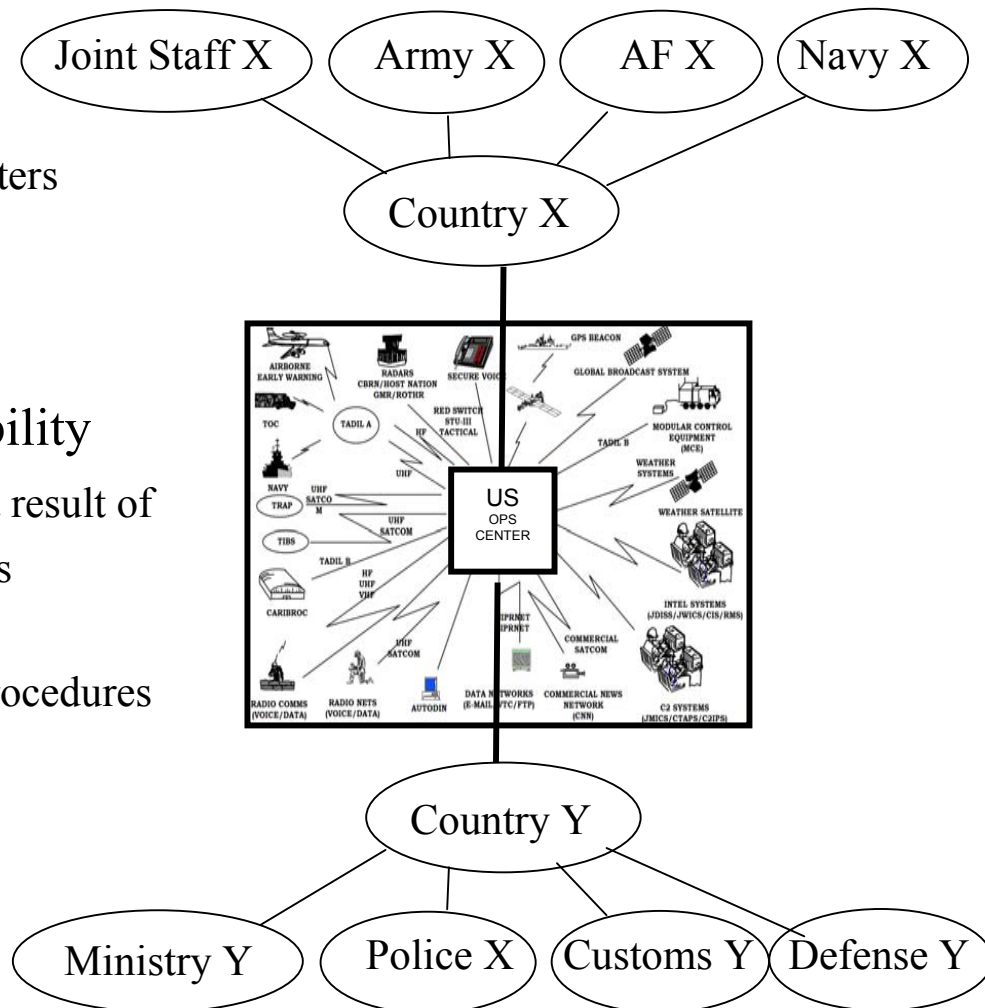


Operational & Systems Architecture Past Performance

- Counterdrug Architecture
- Blue Force Tracking Architecture
- Multinational Information Sharing Architecture
- Consequence Management Architecture
- Various Air Operations Architectures

Operations Center Experience

- Operations Center Integration:
 - Air Surveillance Centers
 - US Joint/Interagency Operations Centers
 - Foreign Military Operations Centers
 - Multinational Operations Centers
- Provide JTF/Coalition Interoperability
 - Information exchange challenges as a result of
 - Varying lines of communications
 - Limited local infrastructure
 - Limited doctrine, policies and procedures in emerging countries

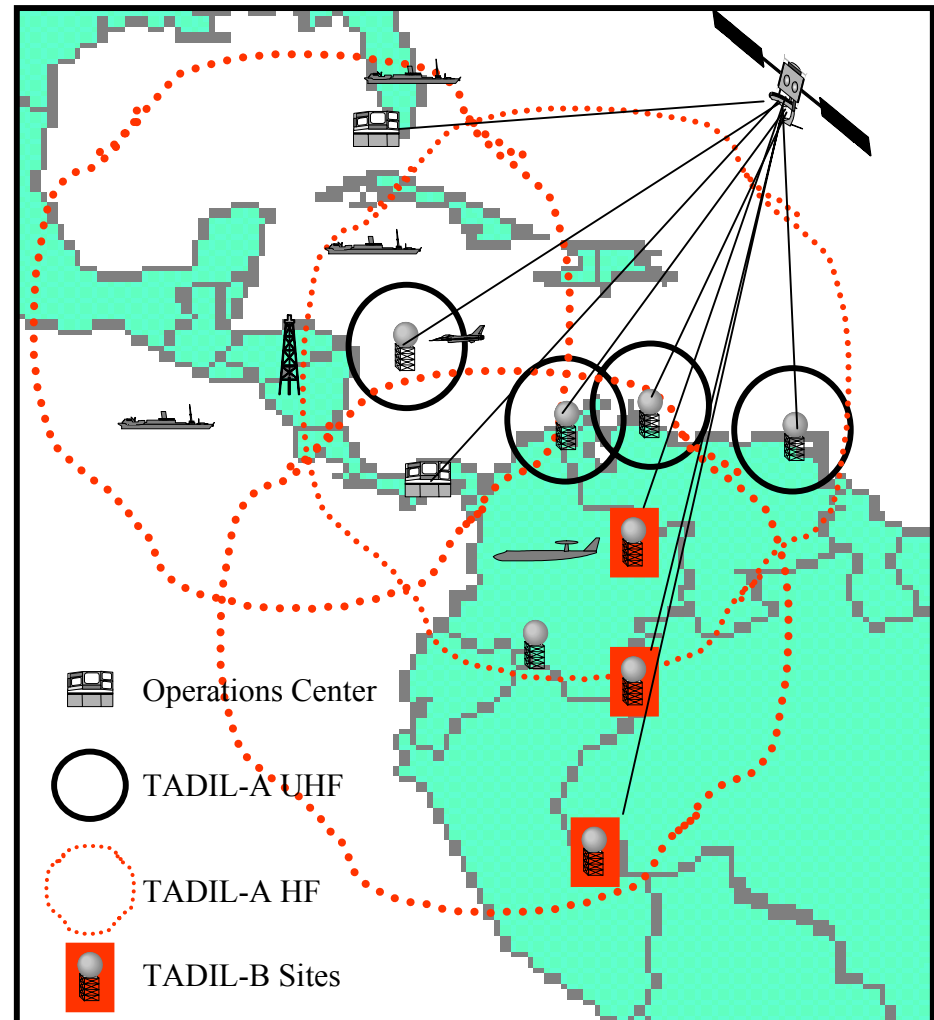


Operations Center Past Performance

- USSOUTHAF's Southern Region Operations Center
- SOUTHCOM's Joint Interagency Task Force South Operations Center
- SOUTHCOM's Joint Southern Surveillance Operations Center
- Colombian Air Defense Center/System
 - Multiple Radar Integration/Remote Radio
 - First Ever Bi-Direction COP Capability in Latin America
- Site Survey's/Analysis of Military or Defense Force Operation Centers:
 - Venezuela, Honduras, Peru, Ecuador, Panama, El Salvador, Guyana
 - C4 Infrastructure
 - Voice, Data Processing Capabilities
 - Processes and Procedures
- Multinational information Sharing Systems in Latin America
 - Connecting Operations Centers in 16 Countries to the US

Data Link Experience

- Data Link Integration
 - US Operations Centers
 - Remote Communications Nodes
- TADIL-A
 - Ultra High Frequency
 - High Frequency
 - Split Site Operation (Remote)
- TADIL-B
 - Surveillance Sensor Data Transfer
- Facility Development
- Equipment Installation
- Integration with External Systems
 - Surveillance Systems
 - GCCS - COP

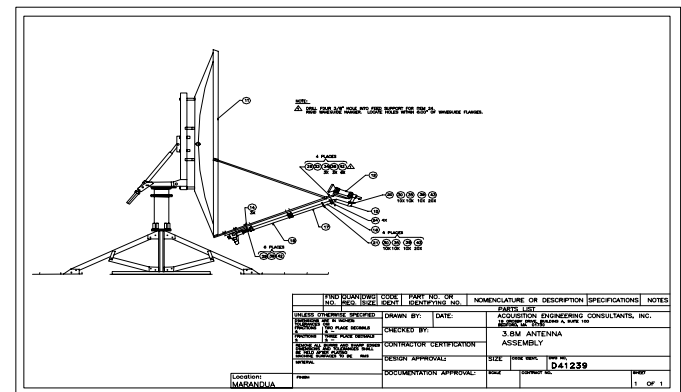
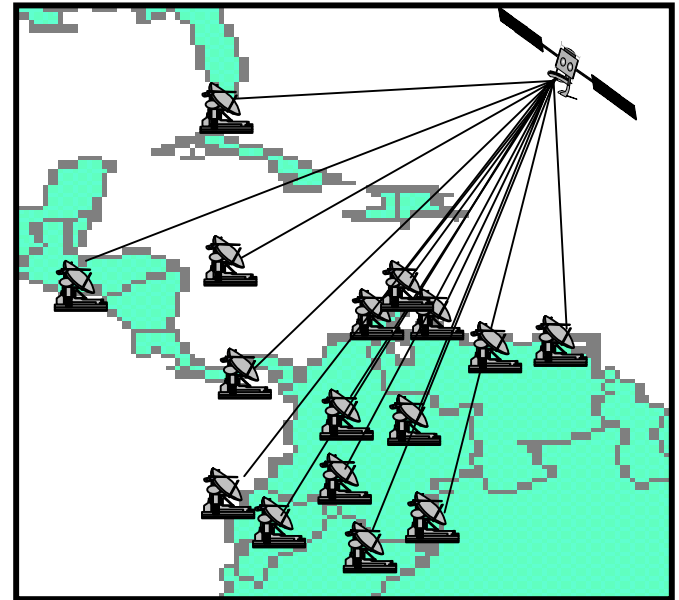


Data Link Past Performance

- Installation of TADIL-A UHF Radios and Data Link Terminal Sets at 6 remote Radar Sites
- Integration of TADIL-B Sites
- Recommended the location for placement of TADIL-A Radio HF radios for maximum coverage within Area of Operation
- Integration of TADIL-A systems into Air Surveillance System and GCCS
- Recommendations to delete TADIL-A UHF and TADIL-B capabilities
 - Limited operational utility in the AOR
- Periodic relocation of radios due to operations center or radar site closures
- Re-homing of data link operations due to operation center deactivation

SATCOM Experience

- Earth Station Integration and Modernization
 - US and Foreign Nations
 - Remote Site/Air Bases
 - Major and Minor Hubs/Multiple Spoke Operations
 - Multiple Up-Link Operations
 - C-Band/Ku-Band/X-Band
 - Modem/Multiplexor Upgrades
 - Subsystem Integration
 - DISN Services Connectivity
 - Special Dedicated Circuits
 - Remote LAN
 - PBX/Key Systems
- Satellite Network and Communications Subsystem Configuration Management
 - Installation Drawings
 - Cable Interconnects
 - Component Settings



SATCOM Past Performance

- Installation of an Earth Station Network with 13 Satellites
 - Operations Centers (US and Foreign)
 - Remote Sites
- Conversion of X-Band and Ku Band Networks to C-Band
- Design of Earth Stations for Forward Operating Locations (Air Bases)
- Migration of Earth Stations to DISA
 - Integration of DISN Services
- Modem Upgrades
 - Next generation error correction techniques
- Multiplexer Upgrades
 - Migration from Time Division Multiplexing to Frame Relay
- Generated Configuration Control Packages for Earth Station Network
- Facilities
 - Antennas
 - Rack Elevations
 - Subsystem interconnects
 - Circuit line drawings
 - Component settings

AEC - Points of Contact

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